

Course Specification Student Version

Course Title:	Clinical Operative I
Course Code:	RDC 411
Department:	Dentistry
Program:	Bachelor of Dentistry
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2025

A. Course Identification

1. Credit hours: 2 (1+0+1)
2. Level/year at which this course is offered: Level 7/Year 4
3. Pre-requisites for this course (if any): Preclinical Operative II (312 RDC)
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lectures
2	Clinical sessions

C. Course Description and Objectives

1. Course Description

This clinical course is a continuation of operative courses that builds in the preceding principles and techniques already presented in the pre-clinical courses while expanding the area of diagnosis and treatment planning. Attention is given to efficient utilization of the clinical facilities and the need for proper patient record and clinical record systems. The students are expected to carry out simple restorative procedures under close staff supervision.

2. Course Main Objective

The aim of this course is to enable students to:

perform patient examinations, formulate a treatment plan, and perform preparation and restoration of different lesions. The main learning outcomes for students enrolled in the course are:

- Motivate and educate the patients toward performing different oral hygiene measures.
- Select proper instruments (hand cutting instruments, burs, etc.) for cavity preparation.
- Diagnose and differentiate between all types of caries, non-carious lesions e.g. abrasion, erosion and other defects.
- Perform a cavity preparation for direct restoration to a biologically and mechanically acceptable level.
- Properly select and use bases and liners.

3. Course Objectives

By the end of this course, students should be able to:

- List the adjunctive aids and diagnostic measures for examining teeth, restorations and diagnosis of caries
- Describe preventive and therapeutic management of dental caries
- List factors affecting adhesion to enamel and dentine and able to know the prerequisites for successful adhesion
- Formulate dental treatment plan based on diagnostic findings for dental caries and patient history
- Select and use the appropriate restorative material

- perform rubber dam isolation, minimally invasive operative procedures, placement and finishing of restorative materials to reconstruct and restore the tooth back to its normal shape, form and function
- Demonstrate, and apply the principles of professional behaviour including honesty, confidentiality, and respect in clinical practice
- Establish collaborative teamwork and leadership responsibility in dental clinic
- Demonstrate, and apply the principles of professional behaviour including honesty, confidentiality, and respect in clinical practice

D. Course Content

No	List of Topics
1	Preliminary considerations for operative dentistry
2	Examination, Diagnosis and Treatment Planning
3	Diagnosis of caries
4	Concepts of Conservative Cavity Design and Management
5	Pulpal consideration in treatment of deep cavity
6	Dental adhesion
7	Anterior composite
8	Posterior composite
9	Glass ionomer restoration
10	Clinical sessions

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Written Exam (Midterm)	15%
2	Written Exam (Quizzes)	5%
3	Clinical Evaluation	40%
4	Clinical Exam	10%
5	Written Exam (Final)	30%
	Total	100%

F. Learning Resources

Essential References	Sturdivant's Art and Science of Operative Dentistry, 7th edition 2018.
Supportive References	---
Electronic Materials	Dentistry Online Web site / YouTube channel
Other Learning Materials	CD available with Sturdivant's textbook.

